

Work Order ID 159892

Wednesday, April 19, 2017 1:41:08 PM

159892

Page 1

Item ID: D5352-1 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Cushion
 Start Date: 4/21/2017 Start Qty: 4.00 ***4*** 100
 Required Date: 4/26/2017 Req'd Qty: 4.00 ***4*** Cust Item ID:
 Reference: SCHEDULED Customer:

Approvals: Process Plan: DAS Date: APR 19 2017 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: 21 Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***
9-89

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D5352	C

100		0.00							APR 20 2017 <u>DAS</u> <u>13</u> <u>9-89</u>
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100

Purchasing

Purchasing

Memo

ISSUE P/O: 36027
 SUPPLIER : GARLAND MANUFACTURING COMPANY
 MANUFACTURE AS PER DWG D5352-1

C OF C IS REQUIRED

110	Receive & Inspect for Damage & Mat'l Certs	0.00
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110

Packaging

Packaging

Memo

0.08

100x80/75-24

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Page 2

Item ID: D5352-1 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Cushion
Start Date: 4/21/2017 Start Qty: 4.00 ***4*** Cust Item ID:
Required Date: 4/26/2017 Req'd Qty: 4.00 ***4*** Customer:
Reference: SCHEDULED

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

120

QC6- Inspect dimensions to drawing

0.00

120

QC

Memo

0.08

Quality Control

1.60

DAS
38
9-89

MAY 26 2017

130

Identify as per dwg & Stock Location: 8555 0.00***130***

Packaging

Memo

0.04

Packaging

1.00

DAS
6
9-89

MAY 30 2017

140

QC21- Final Inspection - Work Order Release 0.00

140

QC

Memo

0.40

Quality Control

17/5/31 JH

DAS
21
9-89

MAY 30 2017

Picklist Print

Wednesday, April 19, 2017 1:41:14 PM

Page 1

Work Order ID: 159892

159892

Parent Item: D5352-1

D5352-1

Parent Item Name: Cushion

Start Date: 4/21/2017

Required Date: 4/26/2017

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV:A 15.11.13 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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D5352-1P

Purchased

No

100

Each

0.0000

1

D5352-1P

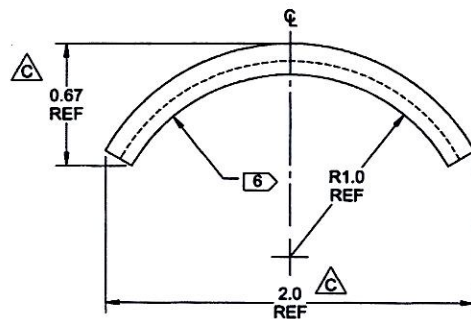
**

100

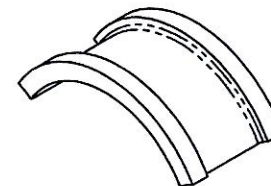
Cushion

-1F

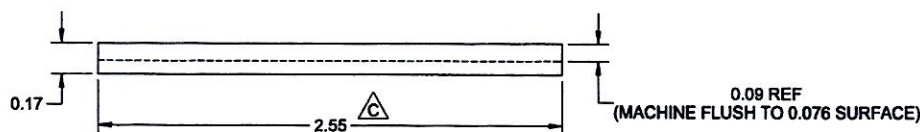
100 X 8017-524



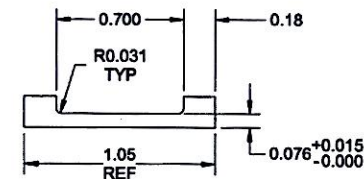
D5352-1 CUSHION
(MAKE FROM D5352-1F)
(COLD FORMED DURING INSTALLATION, DIMS REFERENCE ONLY)



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 159892 MWS
170419



D5352-1F FLAT MACHINED STATE



NOTES:

- 1) MATERIAL: MAKE FROM D4287-1 OR VIRGIN GAR-DUR UHMW-PE, NATURAL, (GARLAND MANUFACTURING COMPANY)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.01 lbs

RELEASED
2017-03-22
EOW 17-535

APPROVED

C	REVISE -1 FOR BETTER FIT	RF	17.02.09
B	ADD PURCHASING OPTION- NEW SUPPLIER REASON: CIR16-69	DB	18.05.09
A	NEW ISSUE	RF	15.08.10
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	VS	DRAWING NO.	REV. C
MFG. APPR.	DD	D5352	SHEET 1 OF 3
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	R66 CUSHION	NTS
DATE	17.02.09	COPYRIGHT © 2015 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36027

Purchase Order Date 4/20/2017

PO Print Date 4/20/2017

Page Number 2 of 3

Order From :

VU-GMC01

Ship To : DART AEROSPACE LTD

GARLAND MANUFACTURING CO.
P.O. BOX 538
SACO, MAINE 04072
USA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

207-283-3693

Ship To Contact

Ship To Phone

Ship Via:

FedEx Overnight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

				Line Total:	\$204.00
4	D5352-1F	Cushion	5/16/2017 Yes 5/16/2017	100.00 Each	\$2.96 / \$296.00
AS PER DWG D5352 REV. C B159892				DAS 38 9-89	
				Line Total:	\$296.00
5	71475-65	FIRST ARTICLE INSPECTION (A007)	5/16/2017 Yes 5/16/2017	1.00 Each	\$35.00 / \$35.00
FAI REQUIRED FOR D5353-1					
				Line Total:	\$35.00

Note:

4/20/2017

GARLAND MFG COMPANY
P.O. BOX 538
SACO, ME 04072
(207) 283-3693

GAR-DUR PLASTIC

RAWHIDE
MALLET AND HAMMERS

Shop Floor Copy

Order Number: 0185236

Order Date: 4/21/2017

Salesperson: 71F

Customer Number: 30-0615903

Sold To:

DART AEROSPACE OEM
1270 ABERDEEN STREET
HAWKESBURY, ON K6A1K7

Ship To:

DART AEROSPACE OEM
1270 ABERDEEN STREET
HAWKESBURY, ON K6A1K7

Confirm To:

Customer P.O.	Ship VIA	Requested Date	Terms
PO36027	UPS COLLECT	5/11/2017	See FD
	6645W1		
Product Code	Description	Units	UOM
310001	FABRICATED PART	200.00	EACH
	PN: D4061-1F		
	TO DWG: D4061 REV D		
310001	FABRICATED PART	200.00	EACH
	PN: D5123-1F		
	TO DWG: D5123 REV D		
310001	FABRICATED PART	200.00	EACH
	PN: D5123-3F		
	TO DWG: D5123 REV D		
310001	FABRICATED PART	100.00	EACH
	PN: D5352-1F		
	TO DWG: D5352 REV C		
	FOR PN: 71475-65		
	TO DWG: D5352-1		
	PROCUREMENT QUALITY CLAUSES		
	A005,007,016,017,026,041,042,043		
	MAIL		
	SEND CERTS W/ PKG LIST		

SP17-5-24.

Date Shipped	BDL or Carton	Approx WT: 0.00	Weight	Quantity
5-17-17	1			above

Invoice

Page 1

FROM

Tax ID/EIN/VAT No.:

Contact Name: Mal Parsons

Garland Mfg

55 Ind'l Park Rd

Saco, ME 040721804

United States

Phone: 2072833693

SHIP TO

Tax ID/VAT No.:

Contact Name: ATTN: LINDA LACELLE

DART AEROSPACE

1270 ABERDEEN ST

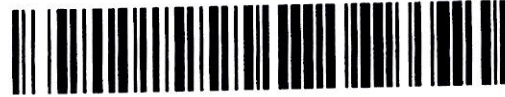
HAWKESBURY, ON K6A1K7

Canada

Phone: 6136322577

Waybill Number: 1Z0194446857808977

Shipment ID: 019444KPXPB



Date: 17/MAY/2017

Invoice No.: PO36027

Purchase No.: 185236

Terms of Sale (Incoterm):

Reason for Export: Sale

SOLD TO INFORMATION

Tax ID/VAT No.:

Contact Name:

Same as Ship To

Phone:

Units	U/M	Description of Goods/Part No.	Harm. Code	C/O	Unit Value	Total Value
200	NMB	D4061-1F 310001	391290	US	3.21	642.00 USD
200	NMB	D5123-1F 310001	391290	US	1.16	232.00 USD
200	NMB	D5123-3F 310001	391290	US	1.02	204.00 USD
200	NMB	D5352-1F 310001	391290	US	2.96	592.00 USD

1000000

SP17-5-24

Additional Comments:

Declaration Statement:

I hereby certify that the information on this invoice is true and correct and the contents and value of this shipment is as stated above.

Shipper

Date

Invoice Line Total:	1,670.00
Discount/Rebate:	0.00
Invoice Sub-Total:	1,670.00
Freight:	0.00
Insurance:	0.00
Other:	0.00
Total Invoice Amount:	1,670.00

Total Number of Packages: 1 Currency: USD
Total Weight: 13.3 LBS

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

NORTH AMERICAN FREE TRADE AGREEMENT CERTIFICATE OF ORIGIN INSTRUCTIONS

For purposes of obtaining preferential tariff treatment, this document must be completed legibly and in full by the exporter and be in the possession of the importer at the time the declaration is made. This document may also be completed voluntarily by the producer for use by the exporter. Please print or type:

- FIELD 1:** State the full legal name, address (including country) and legal tax identification number of the exporter. Legal taxation number is: in Canada, employer number or importer/exporter number assigned by Revenue Canada; in Mexico, federal taxpayer's registry number (RFC); and in the United States, employer's identification number or Social Security Number.
- FIELD 2:** Complete field if the Certificate covers multiple shipments of identical goods as described in Field #5 that are imported into a NAFTA country for a specified period of up to one year (the blanket period). "FROM" is the date upon which Certificate becomes applicable to the good covered by the blanket Certificate (it may be prior to the date of signing this Certificate). "TO" is the date upon which the blanket period expires. The importation of a good for which preferential treatment is claimed based on this Certificate must occur between these dates.
- FIELD 3:** State the full legal name, address (including country) and legal tax identification number, as defined in Field #1, of the producer. If more than one producer's good is included on the Certificate, attach a list of additional producers, including the legal name, address (including country) and legal tax identification number, cross-referenced to the good described in Field #5. If you wish this information to be confidential, it is acceptable to state "Available to CBP upon request". If the producer and the exporter are the same, complete field with "SAME". If the producer is unknown, it is acceptable to state "UNKNOWN".
- FIELD 4:** State the full legal name, address (including country) and legal tax identification number, as defined in Field #1, of the importer. If the importer is not known, state "UNKNOWN"; if multiple importers, state "VARIOUS".
- FIELD 5:** Provide a full description of each good. The description should be sufficient to relate it to the invoice description and to the Harmonized System (H.S.) description of the good. If the Certificate covers a single shipment of a good, include the invoice number as shown on the commercial invoice. If not known, indicate another unique reference number, such as the shipping order number.
- FIELD 6:** For each good described in Field #5, identify the H.S. tariff classification to six digits. If the good is subject to a specific rule of origin in Annex 401 that requires eight digits, identify to eight digits, using the H.S. tariff classification of the country into whose territory the good is imported.
- FIELD 7:** For each good described in Field #5, state which criterion (A through F) is applicable. The rules of origin are contained in Chapter Four and Annex 401. Additional rules are described in Annex 703.2 (certain agricultural goods), Annex 300-B, Appendix 6 (certain textile goods) and Annex 308.1 (certain automatic data processing goods and their parts). **NOTE: In order to be entitled to preferential tariff treatment, each good must meet at least one of the criteria below.**

Preference Criteria

- A** The good is "wholly obtained or produced entirely" in the territory of one or more of the NAFTA countries as referenced in Article 415. **Note: The purchase of a good in the territory does not necessarily render it "wholly obtained or produced".** If the good is an agricultural good, see also criterion F and Annex 703.2. (*Reference: Article 401(a) and 415*)
- B** The good is produced entirely in the territory of one or more of the NAFTA countries and satisfies the specific rule of origin, set out in Annex 401, that applies to its tariff classification. The rule may include a tariff classification change, regional value-content requirement, or a combination thereof. The good must also satisfy all other applicable requirements of Chapter Four. If the good is an agricultural good, see also criterion F and Annex 703.2. (*Reference: Article 401(b)*)
- C** The good is produced entirely in the territory of one or more of the NAFTA countries exclusively from originating materials. Under this criterion, one or more of the materials may not fall within the definition of "wholly produced or obtained", as set out in article 415. All materials used in the production of the good must qualify as "originating" by meeting the rules of Article 401(a) through (d). If the good is an agricultural good, see also criterion F and Annex 703.2. (*Reference: Article 401(c)*)
- D** Goods are produced in the territory of one or more of the NAFTA countries but do not meet the applicable rule of origin, set out in Annex 401, because certain non-originating materials do not undergo the required change in tariff classification. The goods do nonetheless meet the regional value-content requirement specified in Article 401(d). This criterion is limited to the following two circumstances:
1. The good was imported into the territory of a NAFTA country in an unassembled or disassembled form but was classified as an assembled good, pursuant to H.S. General Rule of Interpretation 2(a), or
 2. The good incorporated one or more non-originating materials, provided for as parts under the H.S., which could not undergo a change in tariff classification because the heading provided for both the good and its parts and was not further subdivided into subheadings, or the subheading provided for both the good and its parts and was not further subdivided.
- NOTE: This criterion does not apply to Chapters 61 through 63 of H.S. (Reference: Article 401(d))**
- E** Certain automatic data processing goods and their parts, specified in Annex 308.1, that do not originate in the territory are considered originating upon importation into the territory of a NAFTA country from the territory of another NAFTA country when the most-favored-nation tariff rate of the good conforms to the rate established in Annex 308.1 and is common to all NAFTA countries. (*Reference: Annex 308.1*)
- F** The good is an originating agricultural good under preference criterion A, B, or C above and is not subject to a quantitative restriction in the importing NAFTA country because it is a "qualifying good" as defined in Annex 703.2, Section A or B (please specify). A good listed in Appendix 703.2B.7 is also exempt from quantitative restrictions and is eligible for NAFTA preferential tariff treatment if it meets the definition of "qualifying good" in Section A of Annex 703.2. **NOTE 1: This criterion does not apply to goods that wholly originate in Canada or the United States and are imported into either country. NOTE 2: A tariff rate quota is not a quantitative restriction.**

- FIELD 8:** For each good described in Field #5, state "YES" if you are the producer of the good. If you are not the producer of the good, state "NO" followed by (1), (2), or (3), depending on whether this certificate was based upon: (1) your knowledge of whether the good qualifies as an originating good; (2) your reliance on the producer's written representation (other than a Certificate of Origin) that the good qualifies as an originating good; or (3) a completed and signed Certificate for the good, voluntarily provided to the exporter by the producer.
- FIELD 9:** For each good described in field #5, where the good is subject to a regional value content (RVC) requirement, indicate "NC" if the RVC is calculated according to the net cost method; otherwise, indicate "NO". If the RVC is calculated over a period of time, further identify the beginning and ending dates (MM/DD/YYYY) of that period. (*Reference: Article 402.1, 402.5*)
- FIELD 10:** Identify the name of the country ("MX" or "US" for agricultural and textile goods exported to Canada; "US" or "CA" for all goods exported to Mexico; or "CA" or "MX" for all goods exported to the United States) to which the preferential rate of CBP duty applies, as set out in Annex 302.2, in accordance with the Marking Rules or in each party's schedule of tariff elimination.
- For all other originating goods exported to Canada, indicate appropriately "MX" or "US" if the goods originate in that NAFTA country, within the meaning of the NAFTA Rules of Origin Regulations, and any subsequent processing in the other NAFTA country does not increase the transaction value of the goods by more than seven percent; otherwise indicate "JNT" for joint production. (*Reference: Annex 302.2*)
- FIELD 11:** This field must be completed, signed, and dated by the exporter. When the Certificate is completed by the producer for use by the exporter, it must be completed, signed, and dated by the producer. The date must be the date the Certificate was completed and signed.



Garland Manufacturing Company

Industrial Plastics
Ultra-High Molecular Weight Polyethylene

55 Industrial Park Road
POB 538
Saco, Maine 04072

Specialty Striking Tools
Garland Rawhide Hammers & Mallets

PH: 207/283-3693
FX: 207/283-4834
<http://www.garlandmfg.com>

Dart Aerospace
Attn: Linda Lacelle
1270 Aberdeen St.
Hawkesbury, ON K6A1K7
Re: PO 36027 Quality Clauses A017 and A026
Date: May 18, 2017

Linda:

A026

Please be advised that Garland Manufacturing, located in Saco, Maine, USA, hereby certifies that the material provided by this company for your PO 36027 meets or exceeds ASTM Specification D-4020-05a, the current ASTM specification for Ultra-High Molecular Weight Polyethylene; also known as UHMW or UHWM-PE. Garland Mfg. Company only processes UHMW-PE material at the upper end of the molecular weight range. Our virgin GAR-DUR® UHMW plastic is made from resin with an I.V. of 24 and above with a minimum molecular weight of 4.2 million.

A017

Your PO 360027 parts were produced from the following Resin Lots:

Braskem UTEC6540G resin lot # BADAFC028E, See attached Quality Certificate #0938611/2016

Best Regards,

James Garland
Garland Manufacturing Company
jgarland@garlandmfg.com
800/727-1900 x 45



GARLAND MANUFACTURING
COMPANYBILL KRAMER
55 INDUSTRIAL PARK RD
SACO ME 04072
USA

Quality certificate

Quality certificate number
0938611/2016
Date
08/24/2016
Order
25409 / 08/05/2016
Delivery item/date
801551026 900002 / 08/24/2016
Order item/date
3904292 000020 / 08/05/2016
Customer
3000003954
Invoice
Truck ID

Material code
UTEC6540G-UHMWPE

Lot (batch): BADAFC028E / Validity: 09/05/2018
Quantity: 27,520.000 LB / Production Date: 03/09/2016

Property	Unity	Result	Min Value	Max Value	Method
Molecular Weight (10^6 g/mol)	g/mol	7.6	6.8	9.7	
Bulk Density	g/cm ³	0.43	0.43	0.50	ASTM D 1895-03
Average Particle Size	μ m	227	185	225	ASTM D 1921
I.V. Average	dL/g	28.0	26.0	33.0	ASTM D 4020-05

We confirm the supply as requested
Quality Control Manager: Natanael Carreira
CRQ n° 04200878 / 4ª Region

For any questions about our products, please e-mail to pe-pp@braskem.com.br.

This certificate is automatically printed and is valid without signature